

AMENDMENTS TO THE CLAIMS

This listing of the claims replaces all prior versions, and listings of the claims in the application:

Claims 1-50 (Cancelled).

51. (Currently Amended) An airway adapter, comprising:

a first housing having a first end configured to be coupled to a respiratory conduit and a second end configured to be coupled to the respiratory conduit;

a primary conduit defined in the first housing and including a flow restricting portion, wherein the primary conduit includes an inlet at the first end of the first housing and an outlet at the second end of the first housing;

a first pressure port defined in a sidewall of the first housing between the first end and the second end, wherein the first pressure port is in fluid communication with the primary conduit on a first side of the flow restricting portion;

a second pressure port defined in the sidewall of the first housing, wherein the second pressure port is in fluid communication with the primary conduit on a second side of the flow restricting portion; and

a pressure transducer coupling portion disposed on the first housing and configured to selectively and removably engage a second housing of a pressure transducer.

52. (Previously Presented) The airway adapter of claim 51, the first pressure port includes a first opening and the second pressure port includes a second opening, and further comprising first sealing member covering the first opening and a second sealing member covering the second opening.

53. (Previously Presented) The airway adapter of claim 51, further comprising a first hollow protruding portion extending from the first housing at the first pressure port and a second hollow protruding portion extending from the first housing at the second pressure port.

54. (Previously Presented) The airway adapter of claim 53, wherein the first hollow protruding portion includes a first piercing portion disposed at an end thereof, and wherein the second hollow protruding portion includes a second piercing portion disposed at an end thereof.

55. (Previously Presented) The airway adapter of claim 51, wherein the pressure transducer coupling portion defines a seating element that properly orients a complementarily configured transducer responsive to the transducer being coupled to the airway adapter.

56. (Currently Amended) A pressure transducer comprising:

(a) a transducer housing;

(b) a coupling portion disposed on the transducer housing and configured to selectively and removably attach to a pneumotach housing;

(c) a first pressure sensor disposed in the transducer housing, wherein the first pressure sensor outputs a signal indicative of a pressure monitored by the pressure sensor;

(d) a first sample conduit that includes (1) a first portion disposed in the transducer housing and coupled to the first pressure sensor and (2) a second portion adapted to cooperate with a first pressure port on a pneumotach responsive to the transducer housing being coupled to such a pneumotach housing; and

(e) a second sample conduit that includes (1) a first portion disposed in the transducer housing and coupled to the first pressure sensor and (2) a second portion adapted to cooperate with a second pressure port on a pneumotach responsive to the transducer housing being coupled to such a pneumotach housing.

57. (Previously Presented) The pressure transducer of claim 56, wherein the second portion of the first conduit and the second portion of the second conduit is defined by a portion of the transducer housing.

58. (Previously Presented) The pressure transducer of claim 57, wherein the portion of the transducer housing defining the second portion of the first conduit and defining the second portion of the second conduit each includes a piercing portion.

59. (Previously Presented) The pressure transducer of claim 56, wherein the first pressure sensor comprises a differential pressure sensor in communication with the first and the second sample conduits.

60. (Previously Presented) The pressure transducer of claim 56, further comprising a second pressure sensor including a (1) first portion in communication with at least one of the first sample conduit and the second sample conduit and (2) a second portion in communication with an environment external to the pressure transducer.

61. (Previously Presented) The pressure transducer of claim 56, wherein the first sampling conduit includes a first opening and the second sampling conduit includes a second opening, and further comprising a first sealing portion covering the first opening and a second sealing portion covering the second opening.

62. (Previously Presented) The pressure transducer of claim 61, wherein the first sealing portion and the second sealing portion are defined by a common sealing member.

63. (Previously Presented) The pressure transducer of claim 56, wherein the second portion of the first sample conduit comprises a first piercing member, and wherein the second portion of the second sample conduit comprises a second piercing member.

64. (Previously Presented) The pressure transducer of claim 56, further comprising (1) a first valve disposed in the first sample conduit and (2) a second valve disposed in the second sample conduit.

65. (New) An airway adapter comprising:
a first housing having a first end configured to be coupled to a respiratory conduit and a second end configured to be coupled to the respiratory conduit;
a primary conduit defined in the first housing and including a flow restricting portion;
a first pressure port defined in the first housing in fluid communication with the primary conduit on a first side of the flow restricting portion;
a second pressure port defined in the first housing in fluid communication with the primary conduit on a second side of the flow restricting portion; and
a pressure transducer coupling portion disposed on the first housing and configured to selectively and removably engage a second housing of a pressure transducer, wherein the pressure transducer coupling portion defines a seating element that properly orients a complementarily configured transducer responsive to the transducer being coupled to the airway adapter.